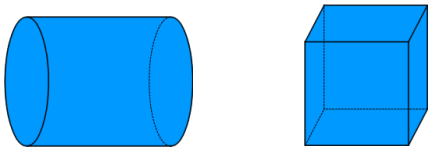
Minimum Surface Area

Cylinder p. 462
Rectangular Prism p. 470

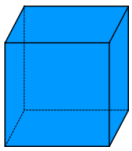
Students will identify the minimum surface Area formulas used for optimal cylinders and cubes.

Identify the relationship for optimal cylinders and cubes.
Recall Volume



May 28-10:55 AM

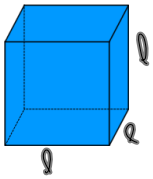
Create Formula Optimal Rectangular Prism
Use Eqao sheet for a rectangular prism



SA =

May 28-11:56 AM

Create Formula Optimal Rectangular Prism
Use Eqao sheet for a rectangular prism



$SA = 2(wh + lw + lh)$

$= 6(l^2)$

$V = l^3$

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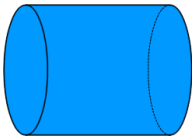
Create Formula Optimal Cylinder
Use Eqao sheet for a regular cylinder



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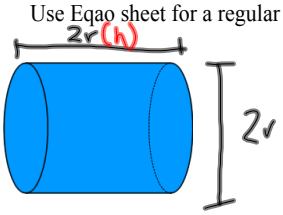
Create Formula Optimal Cylinder
Use Eqao sheet for a regular cylinder



SA = $2\pi r^2 + 2\pi rh$

$SA = 2\pi r^2 + 2\pi r(2r)$

$SA = 2\pi r^2 + 4\pi r^2$

$SA = 6\pi r^2$

$V = \pi r^2 \times 2r$

$V = 2\pi r^3$

May 28-11:54 AM

Seatwork
p. 463-466
q. 11, 12, 14 & 17
p. 473-474
q. 9,11, 13 & 17

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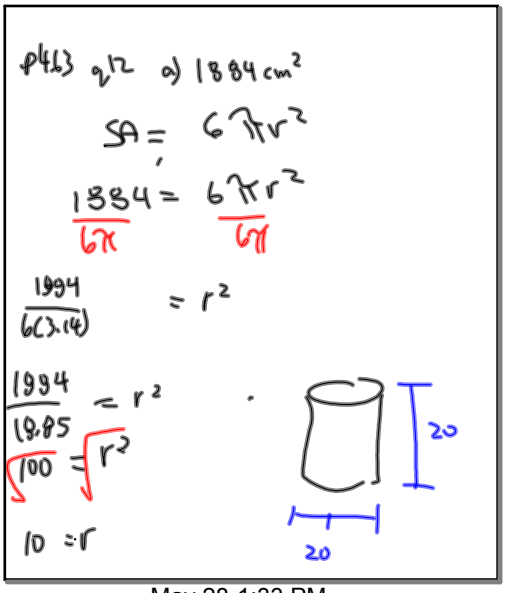

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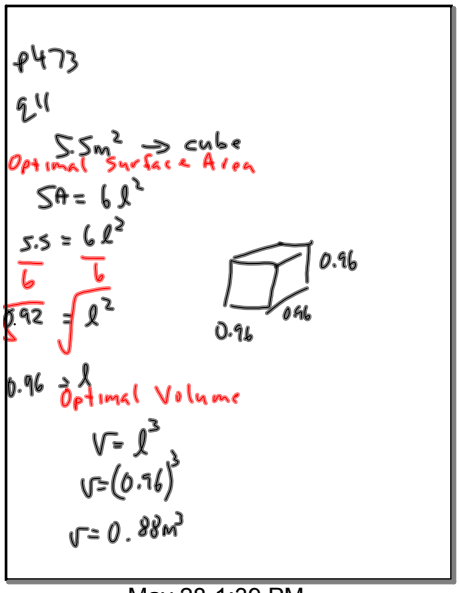

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